

SECTION I—CLAIMS

Amendment to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application. Claims 1-10 and 12-19 are amended herein. Claims 11 and 28-40 are canceled herein without prejudice. No new claims are added.

Listing of Claims:

1. (Currently amended) In a client-server architecture, a [[A]] method comprising:
providing, at a server of the client-server architecture, a Web service having a plurality of
operations available to a plurality of clients of the client-server architecture via a plurality
of underlying ports of the Web service, wherein each underlying port of the Web service
defines (a) the plurality of operations of the Web service available via the underlying
port, (b) the communication protocol and/or bindings used by the operations available
through the respective underlying port of the Web service, and (c) one or more messages
used by the plurality of operations of the Web service available via the respective
underlying port;
accessing, via a client of the plurality of clients in the client server architecture, a first logical
port to defining a first configuration of a service endpoint interface at the server, wherein
the service endpoint interface provides the plurality of clients access to the plurality of
operations of the Web service through the plurality of underlying ports of the Web
service, and wherein the first logical port comprises comprising an abstraction of an
underlying port of the plurality of underlying ports of the Web Service available to the

~~client through~~ associated with the service endpoint interface;

selecting, at the client, an item of configuration information in the ~~accessed~~ first logical port to

configure the logical port to access to the plurality of one or more operations of the Web service from the client through the logical port to of the service endpoint interface,

wherein the service endpoint interface provides the access to the plurality of operations of the Web service through at least one of the plurality of underlying ports of the Web service; and via the first logical port, the item of configuration information to set one or more of an HTTP proxy, user authentication information, and protocol configuration; providing a value for the selected item of configuration information to define, at least in part, the first configuration of the service endpoint interface;

accessing, from the client, the plurality of operations of the Web service through the logical port based on the configuration of the logical port, wherein the plurality of operations are accessed through the configured logical port to the service endpoint interface which has access to the underlying port of the Web service.

~~providing access to the one or more operations of the service endpoint interface based on the item of configuration information and the value for the selected item of configuration information defined;~~

accessing a second logical port defining a second configuration of the service endpoint interface;

selecting a second item of configuration information in the accessed second logical port; and

providing a value for the selected second item of configuration information to define, at least in part, the second configuration of the service endpoint interface.

2. (Currently amended) The method of claim 1, further comprising:

~~wherein providing the value for the selected item of configuration information comprises:~~

~~providing a HyperText Transfer Protocol (HTTP) proxy address for the first configuration of the service endpoint interface.~~

~~providing, at a second client of the client-server architecture, access to the plurality of operations of the Web service through the service endpoint interface to the second client by configuring a second logical port to the service endpoint interface, wherein configuring the second logical port to the service endpoint interface configures access to the plurality of operations of the Web service through a second underlying port of the Web service via the service endpoint interface; and accessing the plurality of operations of the Web service through the second logical port configured at the second client.~~

3. (Currently amended) The method of claim 1, ~~further comprising wherein~~ providing a ~~the~~ value for the selected item of configuration information to define, at least in part, the ~~first~~ configuration of the service endpoint interface, wherein the first configuration comprises: providing an access address for the first configuration of the service endpoint interface.
4. (Currently amended) The method of claim 3, wherein ~~providing~~ the access address for the first configuration of the service endpoint interface comprises: ~~providing~~ a Uniform Resource Locator (URL) for the first configuration of the service endpoint interface.
5. (Currently amended) The method of claim 1, wherein ~~providing~~ the value for the selected item of configuration information to define, at least in part, the first configuration of the ~~service endpoint interface~~ comprises: ~~specifying~~ an authentication type for the ~~first~~ configuration of the service endpoint interface.
6. (Currently amended) The method of claim 5, wherein ~~specifying~~ the authentication type for

the ~~first configuration of the service endpoint interface~~ comprises: one or more
~~specifying the use of client certificates for the first configuration of the service endpoint~~
interface.

7. (Currently amended) The method of claim 1, wherein ~~providing~~ the value for the selected item
of configuration information ~~to define, at least in part, the first configuration of the~~
~~service endpoint interface~~ comprises: ~~specifying~~ a transport guarantee for the ~~first~~
configuration of the service endpoint interface.

8. (Currently amended) The method of claim 7, wherein ~~specifying~~ the transport guarantee for
the ~~first configuration of the service endpoint interface~~ comprises: ~~specifying~~ an
encryption type for the first configuration of the service endpoint interface.

9. (Currently amended) The method of claim 8, wherein the ~~specified~~ encryption type is a Secure
Socket Layer protocol based encryption type.

10. (Currently amended) The method of claim 10, wherein ~~providing~~ the value for the selected
item of configuration information ~~to define, at least in part, the first configuration of the~~
~~service endpoint interface~~ comprises: ~~specifying~~ a name for the ~~first~~ configuration of the
service endpoint interface.

11. (Canceled).

12. (Currently amended) A computer-accessible storage medium having instructions stored
thereon that, when executed in a client-server architecture, cause a client and a server to
execute a method ~~An application server~~ comprising:
providing, at the server of the client-server architecture, a Web service having a plurality of
operations available to a plurality of clients of the client-server architecture via a plurality
of underlying ports of the Web service, wherein each underlying port of the Web service

defines (a) the plurality of operations of the Web service available via the underlying port, (b) the communication protocol and/or bindings used by the operations available through the respective underlying port of the Web service, and (c) one or more messages used by the plurality of operations of the Web service available via the respective underlying port;

accessing, via a client of the plurality of clients in the client server architecture, a logical port to a service endpoint interface at the server, wherein the service endpoint interface provides the plurality of clients access to the plurality of operations of the Web service through the plurality of underlying ports of the Web service, and wherein the logical port comprises an abstraction of an underlying port of the plurality of underlying ports of the Web Service available to the client through the service endpoint interface;

selecting, at the client, an item of configuration information in the logical port to configure the logical port to access to the plurality of operations of the Web service from the client through the logical port to the service endpoint interface, wherein the service endpoint interface provides the access to the plurality of operations of the Web service through at least one of the plurality of underlying ports of the Web service; and

accessing, from the client, the plurality of operations of the Web service through the logical port based on the configuration of the logical port, wherein the plurality of operations are accessed through the configured logical port to the service endpoint interface which has access to the underlying port of the Web service.

a Web service client having a service endpoint interface to expose a Web service method to a client application; and

a processor and logic executable thereon to:

access a first logical port defining a first configuration of the service endpoint interface;
the first logical port comprising an abstraction of an underlying port associated
with the service endpoint interface;
select an item of configuration information in the accessed first logical port to configure
access to one or more operations of the service endpoint interface via the first
logical port, the item of configuration information to set one or more of an HTTP
proxy, user authentication information, and protocol configuration;
provide a value for the selected item of configuration information to define, at least in
part, the first configuration of the service endpoint interface; and wherein the
processor and logic to further:
access a second logical port defining a second configuration of the service endpoint
interface;
select a second item of configuration information in the accessed second logical port, and
provide a value for the selected second item of configuration information to
define, at least in part, the second configuration of the service endpoint
interface.

13. (Currently amended) The computer-accessible storage medium application server of claim
12, wherein the item of configuration processor and logic executable thereon to provide
configuration information to define, at least in part, the first configuration of the service
endpoint interface comprises:

a processor and logic executable thereon to provide a HyperText Transfer Protocol (HTTP)
proxy address for the first configuration of the service endpoint interface.

14. (Currently amended) The computer-accessible storage medium application server of claim

12, wherein ~~item of configuration~~ the processor and logic executable thereon to provide configuration information to define, at least in part, the first configuration of the service endpoint interface comprises:

~~a processor and logic executable thereon~~ to provide an access address for the first configuration of the service endpoint interface.

15. (Currently amended) The computer-accessible storage medium ~~application server of claim~~ 12, wherein the ~~item of configuration~~ processor and logic executable thereon to provide the access address for the first configuration of the service endpoint interface comprises: ~~a processor and logic executable thereon~~ to provide a Uniform Resource Locator (URL) for the first configuration of the service endpoint interface.

16. (Currently amended) The computer-accessible storage medium ~~application server of claim~~ 12, wherein the ~~item of configuration~~ processor and logic executable thereon to provide configuration information to define, at least in part, the first configuration of the service endpoint interface comprises: ~~a processor and logic executable thereon~~ to specify an authentication type for the first configuration of the service endpoint interface.

17. (Currently amended) The computer-accessible storage medium ~~application server of claim~~ 12, wherein the ~~item of configuration~~ processor and logic executable thereon to provide configuration information to define, at least in part, the first configuration of the service endpoint interface comprises: ~~a processor and logic executable thereon~~ to specify a transport guarantee for the first configuration of the service endpoint interface.

18. (Currently amended) The computer-accessible storage medium ~~application server of claim~~

12, wherein the ~~item of configuration processor and logic executable thereon to provide configuration information to define, at least in part, the first configuration of the service endpoint interface comprises:~~

~~a processor and logic executable thereon to specify a name for the first configuration of the service endpoint interface.~~

19. (Currently amended) A Web service client to execute at a client device within a client-server architecture, wherein the Web service client comprises: comprising:

~~a service endpoint interface to expose a Web service method to a client application;~~

a logical port of the client to access a Web service provided by a server within the client-server architecture, the Web service having a plurality of operations available to the client of the client-server architecture via a plurality of underlying ports of the Web service, wherein each underlying port of the Web service defines (a) the plurality of operations of the Web service available via the underlying port, (b) the communication protocol and/or bindings used by the operations available through the respective underlying port of the Web service, and (c) one or more messages used by the plurality of operations of the Web service available via the respective underlying port;

the client to access a service endpoint interface at the server through the logical port of the client, wherein the service endpoint interface provides the client access to the plurality of operations of the Web service through the plurality of underlying ports of the Web service, and wherein the logical port comprises an abstraction of an underlying port of the plurality of underlying ports of the Web Service available to the client through the service endpoint interface;

the client to select an item of configuration information in the logical port to configure the

logical port to access to the plurality of operations of the Web service from the client through the logical port to the service endpoint interface at the server, wherein the service endpoint interface provides the access to the plurality of operations of the Web service through at least one of the plurality of underlying ports of the Web service.

~~implemented between the client application and the service endpoint interface to define a first configuration of the service endpoint interface, the logical port comprising an abstraction of an underlying port associated with the service endpoint interface, wherein the logical port to provide one or more of an HTTP proxy, user authentication information, and protocol configuration to set the first configuration; and~~
~~a second logical port implemented between the client application and the service endpoint interface to define a second configuration of the service endpoint interface.~~

20. (Original) The Web service client of claim 19, wherein the logical port specifies an HyperText Transfer Protocol (HTTP) proxy for the first configuration of the service endpoint interface.
21. (Original) The Web service client of claim 19, wherein the logical port specifies an access address for the first configuration of the service endpoint interface.
22. (Original) The Web service client of claim 21, wherein the specified access address is a Uniform Resource Locator (URL) for the first configuration of the service endpoint interface.
23. (Original) The Web service client of claim 19, wherein the logical port specifies an authentication type for the first configuration of the service endpoint interface.
24. (Original) The Web service client of claim 23, wherein the specified authentication type is a certificate based authentication type.

25. (Original) The Web service client of claim 19, wherein the logical port specifies a name for the first configuration of the service endpoint interface.
26. (Original) The Web service client of claim 19, wherein the logical port specifies a transport layer security protocol to be implemented for the first configuration of the service endpoint interface.
27. (Original) The Web service client of claim 26, wherein the specified transport layer security protocol is based on a Secure Socket Layer protocol.
- 28-40. (Canceled).